## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE    |
|---------------------|----------|--------|---------|
| FEE DETERMINATION   |          |        |         |
| O.I.P.E. CLASSIFIER | 1110     |        | 3/4/2   |
| FORMALITY REVIEW    | MT       | 66548  | 4-6-98/ |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | À | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| Claim   | 9<br>98<br>98                                      | Date            |                 |                     |          |                                      |              | Claim 7 Date  |                |         |      |          |              |               |              | 1      | Cla      | im       | Date     |     |        |          |          |              |              |  |  |                    |          |          |          |
|---|--|-----------------|-----------------|---------------------|----------|--------------------------------------|--------------|---------------|----------------|---------|------|----------|--------------|---------------|--------------|--------|----------|----------|----------|-----|--------|----------|----------|--------------|--------------|--|--|--------------------|----------|----------|----------|
| 1 6   | r <b>2</b> 1                                       |                 |                 |                     |          |                                      |              | $\neg$        |                |         | Ľ    | Т        |              | Ť             | $\bar{\Box}$ |        |          | Т        | -        | ł   |        | _        | Τ.       | 1            | Τ            |  | <u> </u>   |                    | $\neg$   |          | $\dashv$ |
| Final Original                                    | %  | 1               |                 |                     |          |                                      |              | _[            | original<br>21 | 1-20-12 | 17/8 |          |              | ŀ             |              |        |          |          |          |     | _      | Original |          |              |              |  |  |                    |          |          |          |
| Final   | 199  |                 | - [             |                     |          |                                      | 1            | Final         | 윈              | A       | 58   | 1        |              |               |              |        |          |          | - 1      |     | Final  | j.       | 1        | l            |              |  |  | - 1                |          |          |          |
| <del>                                      </del> | <del>                                     </del>   | $\vdash$        | -               | $\vdash$            | +        | +                                    |              | 5             | 읡              | 4.      |      |          | -            | $\dashv$      |              |        |          |          | $\dashv$ | ŀ   | _      | 0        | +        | ╁            | $\vdash$     | $\vdash$   |  | -                  | -        | $\dashv$ | -        |
| L Q V   | <del></del>  | $\vdash \vdash$ |                 | -                   | -        | ┼                                    |              |               | 21             | 7       | 7    | <u> </u> | <u> </u>     | -             | _            | _      | -        | -        | 4        | -   |        | 110      | +        | ╀            | ╀            | ⊢  |  | $\vdash$           | -        |          | _        |
| 1   | <u> </u>   | $\sqcup$        |                 | $\vdash$            | $\bot$   | 4_                                   |              |               | 52             | ╀       | Ц    | ╙        | _            |               |              |        | _        | _        | _        | ļ   |        | 112      | ┷        | ┡            | ╄            | Ь.   |  |                    | _        | $\Box$   |          |
|   |  |                 |                 | Ш                   |          |                                      | . L          |               | 53             | $\perp$ | Ш    | _        | L            |               |              |        | $\sqcup$ | _        |          | Į   |        | 113      |          | L            | Ц            | L  |  | Ш                  |          |          |          |
|   |  |                 |                 |                     |          |                                      |              |               | 54             | $\perp$ | Ц    |          | $oxed{oxed}$ |               | 4            |        |          |          |          | Į   |        | 114      |          |              |              |  |  |                    |          |          | _        |
| 4   |  |                 |                 |                     |          |                                      | ll           | 9             | 55             | $\perp$ |      |          |              |               |              |        |          | l        |          | - [ |        | 115      |          | <u>L</u>     |              | <u> </u>   |  |                    |          |          |          |
|   |  | П               |                 |                     |          | T                                    | l [          | 10            | 56             | П       | П    |          |              |               |              |        | $\neg$   | П        |          | - [ |        | 116      | Т        | Γ            |              |  |  |                    | $\neg$   |          | $\Box$   |
|   |  | П               |                 |                     |          | T                                    | 1 [          | 11            | 57             | Т       | Т    |          |              |               |              |        |          | $\neg$   |          |     |        | 117      | $\top$   | T            |              |  | Г  |                    | $\neg$   |          | П        |
| 8   |  |                 |                 | П                   | 十        |                                      | 1 1          | 12            | 58             | T       | T.   | Т        |              |               |              |        | コ        | T        |          |     |        | 118      | 1        | T            |              | Г  |  |                    | $\neg$   |          | ┪        |
|   | <del>                                     </del>   |                 | $\top$          |                     | _        | +                                    | 1 1          | 13            | 59             | T       | H    | _        | $\vdash$     | $\neg$        | $\neg$       | _      | $\dashv$ | 7        | ┪        | Ì   |        | 119      | $\top$   | $\vdash$     | ╁            | <del>                                     </del> |  | Н                  | $\neg$   |          | ᅥ        |
| 16  | <del>                                     </del>   | 1               |                 | <del>   </del>      | -+-      | +                                    | J L          |               |                | =       | 1    | -        |              | $\dashv$      | _            | -      | ᅥ        | 十        | ┪        | Ì   | _      | 110      |          | ╁            | H            | $\vdash$   | $\vdash$   | H                  | 一        | -        | ᅱ        |
| 1D  |  |                 |                 | $\vdash$            |          | +-                                   | <del> </del> |               | 61             | •       | ٠    | -        | $\vdash$     |               |              |        |          | ⇥        | $\dashv$ | ł   |        | 111      | +        | +            | ╁            | $\vdash$   | -  |                    | $\dashv$ | $\vdash$ | $\dashv$ |
|   |  | ++              | - -             | <del>   </del>      | +        | +                                    | 1 F          |               | 32             | ,6      | r*   | -        | $\vdash$     |               |              | -      | $\dashv$ | ⇥        | $\dashv$ | ł   | _      | 112      | +        | $\vdash$     | +            | $\vdash$   | <del>                                     </del> | $\vdash$           | $\dashv$ | $\vdash$ | ᅱ        |
| 9   | <del>                                     </del>   | ⊢               |                 |                     | $\dashv$ | +                                    |              |               | 63             | 4_      |      | -        | -            | $\dashv$      | $\vdash$     | -      | $\dashv$ | -+       | $\dashv$ | ŀ   | _      | 113      | +-       | ⊢            | +            | ⊢  | $\vdash$   | $\vdash$           | $\dashv$ | $\vdash$ | $\dashv$ |
| 1460  | ┝╌   | $\vdash$        | <del> -</del> - | $\vdash$            | +        | +                                    | <b>∤</b> ⊦   | _             | _              |         |      |          | _            | _             |              |        |          | -+       | $\dashv$ | -   | _      | -        |          | Ͱ            | ⊬            | $\vdash$   | ⊢  |                    | $\dashv$ | $\vdash$ |          |
|   |  | ╌               |                 |                     | +        | +                                    | -            | _             | 64             | _       |      | -        | -            |               | -            | _      | -        | -        | _        | ,   |        | 114      | +        | $\vdash$     | $\vdash$     | $\vdash$   | -  |                    | $\dashv$ | _        | ᅴ        |
| 15  | $\vdash$   | $\vdash$        |                 | Н                   | +        | 4                                    |              | _             | 65             | _       |      | $\vdash$ | $\vdash$     |               |              |        | _        | _        | _        | ļ   | _      | 115      | +        | <del> </del> |              | <b> </b>   | <u> </u>   | $\sqcup$           | _        | Ш        | ᅴ        |
| 16  |  |                 |                 |                     |          | _                                    |              |               | 66             |         | _    | _        | _            |               |              |        | _        | _        | _        | ļ   |        | 116      |          | ┖            | _            | <u> </u>   |  |                    | _        | Ц        |          |
| 17  |  | $\sqcup$        | 1               | Ш                   | _        | 4_                                   |              | _             | 37             |         |      | L        | Ш            |               |              |        |          |          | $\dashv$ | ļ   | _      | 117      |          | <u> </u>     | $\vdash$     | L  | L_   |                    |          |          |          |
| 1B  |  | Ш               |                 | Ш                   |          |                                      | l L          | ŀ             | 68             |         |      |          |              |               |              |        | $\perp$  |          |          | L   |        | 118      |          | L            | <u>L</u>     |  | _  |                    |          |          |          |
|   |  |                 |                 |                     | t_       |                                      |              |               | 69             |         |      |          |              | ,             |              |        | _ [      |          |          |     | ]      | 119      |          |              | ١.           |  |  |                    |          |          |          |
|   |  | Π               |                 |                     | Т        |                                      | lΓ           | П             | 70             |         |      |          |              |               |              |        |          | T        | $\neg$   |     |        | 120      |          | П            | П            |  |  |                    | $\Box$   |          | $\neg$   |
| 21  |  | Ħ               |                 |                     | $\top$   | $\top$                               | 1            | 7             | 71             |         | -    | _        |              |               |              |        | 寸        | - 1      | $\dashv$ | ı   | _      | 121      | $\top$   | ✝            | $\vdash$     |  |  |                    | $\dashv$ |          | ⊣        |
| 1/2   |  | -               |                 |                     | $\top$   | +                                    | 1            | _             | 72             | $\neg$  | _    | $\vdash$ | Н            |               |              | $\neg$ | $\dashv$ | $\dashv$ | ⊣        | ŀ   | $\neg$ | 122      | +-       | ✝            | $\vdash$     | <del>                                     </del> | <u> </u>   | Н                  | ┪        | H        | ᅱ        |
| 22<br>23  | <del>    -   -   -   -   -   -   -   -   -  </del> | 1-              | +               | $\vdash$            | +        | +-                                   | 1 1          |               | 73             |         |      |          |              |               | $\dashv$     |        | -        | +        | $\dashv$ | ŀ   | _      | 123      | +        | ╁            | +-           |  | $\vdash$   | H                  | $\dashv$ |          | $\dashv$ |
| 4   | <del>   </del>                                     | $\vdash$        | +               | $\vdash$            | $\dashv$ | +-                                   | H            |               | 74             | -       |      | -        |              |               | $\dashv$     | -      | -        | ┪        | $\dashv$ | 1   | _      | 124      |          | ⊢            | ┿            | ├  | $\vdash$   | Н                  | $\dashv$ |          | $\dashv$ |
| 25  | <del>                                     </del>   | ┰               | +               | $\vdash$            | -        | ╁                                    | 1            | _             | 75             | _       |      | ├        | $\vdash$     | $\dashv$      | $\vdash$     |        | -        | $\dashv$ | $\dashv$ | 1   | _      | 125      | +        | ⊢            | ╁╌           | ├  | -  | $\vdash$           | $\dashv$ |          | $\dashv$ |
| 26  |  | -               | +               | $\vdash$            | +        | +                                    | 1            | _             | 76             | _       | _    | -        | ┝            | -             | -            |        | $\dashv$ | $\dashv$ | $\dashv$ | ŀ   |        |          | +-       | ⊢            | ┼            | ├  | -  | Н                  | $\dashv$ | _        | $\dashv$ |
| 27  | <del>├</del>                                       | $\vdash$        | +               | ┥                   | $\dashv$ | +-                                   |              | _             | 77             | _       |      | ├-       | $\vdash$     | -             | -            | _      | ᅴ        | +        | -        | ŀ   |        | 126      |          | ╀            | +            | ⊢  | ┡  | Н                  | -        |          | ⊣        |
|   | -  | -               |                 | $\vdash$            | -        | -                                    |              | _             | _              | _       |      | ⊢        | $\vdash$     | $\dashv$      |              |        |          | $\dashv$ |          | ŀ   | _      | 127      | +-       | ⊢            | 1            | <u> </u>   |  | $\vdash \vdash$    | $\dashv$ |          | $\dashv$ |
| 28  | <u>!</u>   | $\vdash$        |                 | Ш                   | _        | -                                    |              | _             | 78             | _       |      | <u> </u> | _            |               |              |        | _        | -        | 4        |     | _      | 128      |          | ↓            | ₩            | _  | <u> </u>   | $\sqcup$           | ႕        |          | $\dashv$ |
| 29  | $\sqcup \bot$                                      |                 |                 | $\Box$              | $\perp$  | _                                    |              |               | 79             |         |      | _        | L            | _             |              |        | _        |          | _        | ļ   |        | 129      | 4        | <u> </u>     | ┞.           | _  | L  |                    | _        |          |          |
| 30  |  |                 |                 | Ш                   | _        | ┿-                                   |              | $\rightarrow$ | 70             |         |      | _        | _            |               | _            |        |          | _        |          |     |        | 130      |          | ┞            | <del> </del> | L  | _  | Ш                  |          |          |          |
| 31  | <u> </u>   | $\sqcup$        |                 | Щ                   |          | -                                    |              | _             | 81             | 4       |      |          |              |               |              |        |          |          |          |     |        | 131      |          | ļ.,          | _            |  | L_   |                    |          |          |          |
| 32  | $\sqcup \!\!\! \perp$                              |                 |                 | Ц                   |          |                                      |              |               | 82             |         |      |          | _            |               |              |        |          | _        | _        |     |        | 132      | <u>.</u> | 丄            | <u> </u>     |  |  |                    |          |          |          |
| 33  |  | Ш               |                 |                     |          |                                      |              |               | вз             |         |      |          |              |               |              |        | $\Box$   |          |          | l   |        | 133      |          | L            |              |  |  | Ш                  |          |          |          |
| 32<br>33<br>34                                    |  | $\sqcup$        |                 | Ш                   |          |                                      |              |               | 84             |         |      | L        | $\Box$       |               |              |        | [        | $\perp$  |          |     | _      | 134      |          | L            |              | _  | <u> </u>   | Ш                  |          |          | _]       |
| 35  |  | Ш               |                 | Ш                   |          |                                      |              | _             | B5             |         |      | Ĺ        |              |               |              |        |          |          |          | -[  |        | 135      |          | L            |              | L  | L  | ot                 |          |          |          |
| 730   |  |                 | $\perp$         | $oxed{oxed}$        |          |                                      |              |               | 86             | _       |      | L        |              |               |              |        |          |          |          |     |        | 136      |          | Ĺ            | oxdot        | 匚  | oxdot  | $oxedsymbol{oxed}$ | [        |          |          |
| 420   |  |                 | -               |                     |          |                                      | jſ           | _7            | В7             |         |      |          |              |               |              |        |          |          |          |     |        | 137      |          | $\Gamma$     |              |  |  |                    |          |          |          |
| 3 HS (3) 33 HS                                    |  |                 | T               |                     |          |                                      | Ì            | $\Box$        | 88             |         |      |          |              |               |              |        | $\Box$   | $\neg$   | 1        | .   |        | 138      | T        | Γ            |              |  |  |                    | $\neg$   |          | $\neg$   |
| 39  |  | П               |                 | П                   |          | 1                                    | 1            | $\neg$        | 89             |         |      | Г        |              | $\overline{}$ |              |        |          | 7        |          | .   | _      | 139      | 1        |              | $\top$       | Г  | Г  | П                  | $\neg$   | П        | $\neg$   |
| 40  | 厂  | $\sqcap$        | $\top$          | П                   | _        | †                                    | 1            |               | 90             |         |      |          |              |               |              |        | T        | 7        | $\dashv$ |     |        | 140      |          | 1            | 1            | 1  |  | $\Box$             | $\dashv$ | П        | $\dashv$ |
| 41  | $\vdash$   | +               | +               | H                   | +        | +                                    | 1            |               | 91             | -       | _    | -        |              |               | $\dashv$     |        | -        | $\dashv$ | $\dashv$ | ŀ   |        | 141      | +        | ╆            | +-           | ╁  |  | $\vdash$           | -        | Н        | $\dashv$ |
| 1   | $\vdash$   | $\vdash$        | +               | $\vdash \vdash$     | +        | +                                    | <b> </b>     |               | 92             |         | _    | -        | H            | -             | $\dashv$     |        | $\dashv$ | -+       |          | ŀ   |        | 142      | +        | H            | ╀            | ├  | -  | $\vdash$           | $\dashv$ | $\vdash$ | $\dashv$ |
| <del>                                    </del>   | $\vdash$   | $\vdash \vdash$ | +               |                     | +        | +                                    | {            |               |                | _       |      | -        | -            | $\vdash$      |              |        | -        | $\dashv$ | $\dashv$ |     | _      | 143      | +-       | +-           | +            | -  | H  | $\vdash \vdash$    |          | Н        | $\dashv$ |
|   | <del>  </del>                                      | ₩               | +-              | $\vdash \vdash$     | +        | -                                    | {            |               | 93             | _       |      | ⊢        | Н-           | $\dashv$      | -            | -      | $\dashv$ | +        | $\dashv$ | ŀ   |        | _        | +        | ├-           | ╂-           | -  | H  |                    | $\dashv$ | $\vdash$ | $\dashv$ |
| 42<br>43<br>44<br>45                              | <b>├</b> -├  | $\vdash$        |                 | $\vdash \vdash$     | _        | $\vdash$                             |              |               | 94             | -       | _    | _        | <u> </u>     |               |              |        | _        | -        |          |     |        | 144      | +        | ├-           | ⊢            | -  | $\vdash$   | $\vdash$           |          | Ш        | ႕        |
|   | ⊢  | $\vdash \vdash$ | +               | $\vdash \downarrow$ | -        | +-                                   |              |               | 95             |         |      | -        |              |               |              |        |          | -        | _        |     |        | 145      | -        |              | ⊢            | <u> </u>   | <u> </u>   | $\sqcup$           | $\dashv$ | Щ        | $\dashv$ |
| N40   |  | $\sqcup$        | -               | $\sqcup$            | -        | _                                    |              |               | 96             |         |      | $\vdash$ |              | Щ             | Ш            | Ш      | _        | $\dashv$ | _        | ļ   |        | 146      | $\bot$   | $\vdash$     |              | $\vdash$   | L  | Щ                  | _        | Ц        | $\dashv$ |
| 142   | =  | $\sqcup$        | <u> </u>        | Ш                   | $\bot$   | $\perp$                              |              |               | 97             |         |      | <u> </u> |              |               | Щ            |        |          | _        | _        | ļ   |        | 147      | 4        | L            | $\perp$      | $\perp$  |  | Ш                  |          | Ц        | Щ        |
| 2 48  | Щ  | $\sqcup$        |                 |                     |          | 1                                    |              |               | 98             |         |      | _        | Ш            | _             |              |        |          | ·        | _        | Į   | _      | 148      | _        | $\perp$      | ↓_           | _  |  | Ш                  |          | Щ        |          |
| 2 48<br>3 49<br>4 50 5                            | Щ  | Ш               |                 | Ш                   |          |                                      |              |               | 99             |         |      | L        | Ш            |               |              |        | 1        | $\perp$  | $\Box$   | ļ   |        | 149      | _        | L            | <u>_</u>     | L  | _  |                    |          |          |          |
| 4 50 =  | 5  | Ш               |                 | LЦ                  |          | ــــــــــــــــــــــــــــــــــــ | JŁ           | ŀ             | 00             |         |      |          | $\Box$       |               |              |        |          |          | _        | l   |        | 150      | ⊥_       | L            | <u>L</u>     |  |  |                    |          | Ш        | ╝        |

If more than 150 claims or 10 actions staple additional sheet here BEST AVAILABLE COPY